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**Department of Energy**  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

04-AMCP-0281

MAY 4 2004

Ms. Jane A. Hedges  
Cleanup Section Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
1315 W. Fourth Avenue  
Kennewick, Washington 99336

**RECEIVED**  
MAY 10 2004  
**EDMC**

Dear Ms. Hedges:

**RESPONSE TO CHROMIUM CONTAMINATION OF GROUNDWATER AT 100-D AREA**

This letter is in reference to Ecology's letter from J. B. Price to K. Klein, RL, "Response to Letter 04-AMCP-0171, "Chromium Contamination of Groundwater at 100-D Area," dated April 2, 2004. In this letter the State of Washington Department of Ecology (Ecology) requested that RL re-evaluate the commitment to install an extension of the in situ redox manipulation (ISRM) barrier in the 100-D Area where groundwater chromium concentrations are increasing. Based on recent monitoring data from the ISRM barrier presented to Ecology at a March 16, 2004 meeting, it was determined that extending the barrier would not be prudent at this time. This meeting concluded that RL would implement a pump-and-treat groundwater remedial action for this plume. RL reaffirms the decision to implement pump-and-treat and included with this letter is the task-level schedule for construction and start-up, as requested.

Under separate cover, and within time-frame specified in the referenced letter, RL will provide the following requested actions:

1. Complete a needs analysis for the continued operation of the 182-D reservoir, including a task-level schedule to repair, retire, or retire and replace the reservoir by July 6, 2004.
2. Based on the report from the DOE Headquarters EM-23 Technical Assistance Team, "Mending the In Situ Redox Manipulation Barrier", provide the technical scope and task-level schedule for barrier rehabilitation for Ecology review and approval by May 12, 2004.

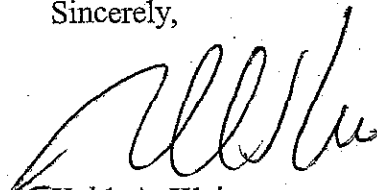
Ms. Jane A. Hedges  
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-2-

MAY 4 2004

If you have questions, please contact me, or your staff may contact Matt McCormick, Assistant Manager for the Central Plateau, on (509) 373-9971.

Sincerely,



Keith A. Klein  
Manager

AMCP:ACT

Attachment

cc w/attach:

J. V. Borghese, FHI

R. A. Carlson, BHI

J. J. Fiore, EM-22

L.E. Gadbois, EPA

S. Harris, CTUIR

R. Jim, YN

T. Martin, HAB

K. Niles, ODOE

J. Price, Ecology

P. Sobotta, NPT

W. W. Soper, Ecology

Administrative Record (100-HR-3 OU)

Activity ID	Activity Description	Early Start	Early Finish	FY04											
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE			
100 D Area Chromium Plume Remediation															
Design/Procure/Install MR3 Treatment Unit															
G1D4701	Coordinate with Vendor for MR3 Unit Requirements	19MAR04*	19APR04												
G1D4750	subcontract fabricate/deliver MR3 Unit	20APR04	14JUN04												
G1D4755	Install 100D MR3 Unit (subcont)	15JUN04	30JUN04												
G1DTEST	100D Area Chromium Remediation System Testing	01JUL04	30JUL04												
Design/Procure/Install 100D Pad & Bldg															
G1D4401	Prepare Design for 100D Pad/Structure/Building	19MAR04	01APR04												
G1D4435	RFP Bid cycle for the 100D Area Bldg /Pad	02APR04	29APR04												
G1D4451	Pour 100D Area building Pad	30APR04	06MAY04												
G1D4455	Install Prefabbed 100D Area bldg	07MAY04	14MAY04												
Design/Procure/Install 100D Elec Power Source															
G1D4601	Prepare Design for 100D Electrical Power Source	26MAR04	08APR04												
G1D4635	Review / Evaluate 100D Electrical Power Bids	09APR04	28APR04												
G1D4650	Install Electrical Power to MR3 bldg (subcont)	29APR04	14MAY04												
Design/Procure/Install 100D Bldg Equipment															
G1D4910	Prepare Design for 100D Process bldg equipment	19MAR04	05MAY04												
G1D4937	RFP Cycle for 100D Area Process Bldg equipment	06MAY04	26MAY04												
G1D4950	Install 100D Area Process Bldg Equipment	27MAY04	29JUN04												
Design/Procure/Install Well Tie-In															
G1D4815	Design to Tie-In 100D Extraction/Inject Wells	19MAR04	08APR04												
G1D4828	RFP Cycle for 100D Area Well Tie-in	09APR04	26APR04												
G1D4835	Install Well Tie-Ins to Extraction/Inject wells	27APR04	30JUN04												
Operate and Maintain Pump & Treat System															
G1DOPS	Begin 100D Area Chromium Remediation		30JUL04												
G1DMS1	Operate MR3 System for 100D Chromium Remediation	02AUG04	30SEP04												
Drill 3 Compliance Wells for 100D Area Treatment															
Well Planning for 3 Compliance wells at 100D															
G7D4142	Well Planning/RFP Cycle for 3 new wells at 100D	19JAN04*	12MAR04												
G7D4D52	S/C Roads and Pads	12FEB04	21APR04												
Drill 3 new Compliance Wells at 100D															
G7D4D41	Mobilize Drilling Subcontractor	22APR04	28APR04												
G7D4022	Subcontract - Construct Well #1	29APR04	10JUN04												
G7D4024	Subcontract - Construct Well #2	29APR04	10JUN04												
G7D4034	Subcontract - Construct Well #3	29APR04	10JUN04												

21APR04 0

### 100D Area Chromium Plume Remediation Plan